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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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22850	7590 04/07/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			DEAN, RAYMOND S	
	SIREE1 SIA, VA 22314		ART UNIT	PAPER NUMBER
			2684	
			DATE MAILED: 04/07/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/987,545	DELTOUR ET AL.				
Office Action Summary	Examiner	Art Unit				
	Raymond S Dean	2684				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
 Responsive to communication(s) filed on 12 November 2004. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
 4) Claim(s) 1 - 10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1 - 10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 14 February 2002 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	e: a) accepted or b) objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1101.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) te atent Application (PTO-152)				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed November 12, 2004 have been fully considered but they are not persuasive.

Examiner respectfully disagrees with Applicants' assertion on Page 7, 1st

Paragraph of the Remarks "With respect to the rejection of Claim 1, Applicants respectfully submit that the combination". Kroon teaches a TDMA system in which digital data packets are transmitted. The digital data packets, which can be voice or data, are transmitted at a plurality of different time slots that comprise a TDMA frame. Since the digital data packets can be transmitted at a plurality of different time slots and there can be simultaneous transmission of voice and data there will instants in time when there will be groups of time slots at which data is transmitted and groups of time slots at which voice is transmitted (See Page 9 lines 1 – 3, Page 9 lines 6 – 8, Page 13 line 6).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 1 – 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kroon et al. (WO 00/18041) in view of McGibney (US 6,594,273).

Regarding Claim 1, Kroon teaches a method of providing sub-channels for transmitting information in a telecommunication network comprising several stations for the transmission of data and speech (Figure 2, Page 5 lines 14 – 15, Page 9 lines 1 – 3, Page 9 lines 6 - 8), wherein the method comprises normally time-multiplexing a data information sub-channel into a first group of time slots and a speech information sub-channel into a second group of time slots to form a frame (Figure 2, Figure 6, Page 9 lines 1 – 3, Page 9 lines 6 – 8, Page 13 line 6, this is a TDMA system in which digital data packets are transmitted, the digital data packets, which can be voice or data, are transmitted at a plurality of different time slots that comprise a TDMA frame, since the digital data packets can be transmitted at a plurality of different time slots and there can be simultaneous transmission of voice and data there will be instants in time when there will be groups of time slots at which data is transmitted and groups of time slots at which voice is transmitted).

Kroon does not specifically teach time-multiplexing a data information subchannel into a first group of time slots and a speech information sub-channel into a second group of time slots along with providing at least one general services and synchronization sub-channel time slot to form a frame including the at least one designated general services and synchronization sub-channel time slot in a sequential arrangement with members from of the first and second groups.

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McGibney teaches time multiplexing of the data sub-channels with a general services and synchronization sub-channel time slot to form a frame including the at least one designated general services and synchronization sub-channel time slot in a sequential arrangement with the data sub-channels (Column 4 lines 25 – 32).

Kroon and McGibney both teach a wireless TDMA network thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the synchronization sub-channel taught in McGibney in the wireless network of Kroon for the purpose of setting the pace of the TDMA frame for the entire network as taught by McGibney thus enabling all of the terminals in said network to be synchronized for communicating with one another.

Regarding Claim 2, Kroon in view of McGibney teaches all of the claimed limitations recited in Claim 1. McGibney further teaches providing a link between at least two stations of the network using the general services and synchronization subchannel; and using the link to perform tasks (Column 4 lines 50 – 58, the terminals in the network are synchronized so that said terminals can perform tasks such as communicating with one another).

Regarding Claim 3, Kroon in view of McGibney teaches all of the claimed limitations recited in Claim 2. Kroon further teaches wherein the tasks include transmitting one of a request for priority transmission formulated by a station, a warning reported by a station, a "flash" message, a request for repetition of a message, commands sent out by a master station, and information regarding reconfiguration of the network (Page 16 lines 8 – 13).

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Regarding Claim 4, Kroon in view of McGibney teaches all of the claimed limitations recited Claim 1. McGibney further teaches providing a first part of the information in each sub-channel time slot as configured to provide synchronization information between stations of the network (Column 4 lines 50 – 53).

Regarding Claim 5, Kroon in view of McGibney teaches all of the claimed limitations recited in Claim 1. McGibney further teaches sending a synchronization signal from a master station of the network on the general services and synchronization sub-channel (Column 1 lines 48 – 51, Column 4 lines 55 – 58, the active terminal is the master terminal).

Regarding Claim 6, Kroon in view of McGibney teaches all of the claimed limitations recited in Claim 1. Kroon further teaches transmitting information using a sub-channel for information that would normally be transmitted on another sub-channel (Page 5 lines 12 – 13, Page 16 lines 2 – 5, the control channel can also be a data channel that can transmit the same data that is transmitted on another data channel).

Regarding Claim 7, Kroon in view of McGibney teaches all of the claimed limitations recited in Claim 1. Kroon further teaches implementing an anti-collision procedure when there are several simultaneous or almost simultaneous requests for use of the data information or speech information sub-channel (Page 9 lines 19 - 29, Page 10 lines 1 - 9).

Regarding Claim 8, Kroon in view of McGibney teaches all of the claimed limitations recited in Claim 7. Kroon further teaches wherein the anti-collision process comprises: assigning a random number to each requesting station; the station with the

lowest number obtaining a right to transmit first; and other stations obtaining a right to transmit in an order corresponding to a rising order of the random numbers that have been assigned to them (Page 10 lines 20 – 26, Page 16 lines 8 – 13, the priority status of the terminals are based on their randomly chosen mini/sub slots).

Regarding Claim 9, Kroon in view of McGibney teaches all of the claimed limitations recited in Claim 7. Kroon further teaches governing the anti-collision process by a rotating rule of priority (Page 16 lines 8 – 13).

Regarding Claim 10, Kroon in view of McGibney teaches all of the claimed limitations recited in Claim 9. Kroon further teaches making simultaneous use of both the data information sub-channel and the speech information sub-channel by a first station, and the first station releasing the required sub-channel when another station requires use the required sub-channel (Page 9 lines 1 – 3, Page 9 lines 6 – 8, Page 13 lines 6 – 13, Page 15 lines 24 – 28, this is a TDMA system which means that there will be frames comprising time slots wherein some of said time slots will be voice time slots and some of said time slots will be data time slots thus both of the voice and data sub-channels can be used simultaneously).

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond S Dean whose telephone number is 703-305-8998. The examiner can normally be reached on 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Raymond S. Dean April 2, 2005

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NICK CORSARO PRIMARY EXAMINER